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NOTICE OF ALLOWANCE AND FEE(S) DUE

23696

7590

09/17/2008

QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121 EXAMINER

JAIN, RAJ K

ART UNIT PAPER NUMBER

2616

DATE MAILED: 09/17/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,807	11/21/2003	Yongbin Wei	000458C1	3293

TITLE OF INVENTION: METHOD AND APPARATUS FOR CODE ASSIGNMENT IN A SPREAD SPECTRUM WIRELESS COMMUNICATION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/17/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/719,807	11/21/2003		Yongbin Wei	L		000458C1	3293
SYSTEM	N: METHOD AND API	PARATUS FOR CODE	ASSIGNMENT IN A SE	PREAD SPECTRUN	M WIR	ELESS COMMUNI	CATION
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nonprovisional	NO	\$1440	\$300	\$0 \$1740		\$1740	12/17/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
JAIN, I	RAJ K	2616	370-320000	•			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA	"Indication form led. Use of a Customer A TO BE PRINTED ON To the design of the second secon	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attolisted, no name will be THE PATENT (print or type data will appear on the part of the pa	vely, e firm (having as a rigent) and the name: rneys or agents. If niprinted. be) atent. If an assignee	membe s of up o name	ra 2to	ocument has been filed for
(A) NAME OF ASSIC	GNEE		(B) RESIDENCE: (CITY	and STATE OR CO		,	up entity 🚨 Government
`	are submitted: To small entity discount p # of Copies	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long				
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Authorized Signature				Date			
			Registration Noation is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process				
This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450. Alexandria, V	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bur firginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 m idual case. Any con er, U.S. Patent and T D THIS ADDRESS.	e public inutes t nments radema SEND	c which is to file (and to complete, includin on the amount of tir ark Office, U.S. Depa TO: Commissioner	by the USPTO to process) g gathering, preparing, and ne you require to complete urtment of Commerce, P.O. for Patents, P.O. Box 1450.

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23696	23696 7590 09/17/2008		EXAMINER				
QUALCOMM I	NCORPORAT	JAIN, RAJ K					
5775 MOREHOUSE DR. SAN DIEGO, CA 92121				ART UNIT	PAPER NUMBER		
				2616			
				DATE MAILED: 09/17/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 887 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 887 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/719,807	WEI ET AL.
Notice of Allowability	Examiner	Art Unit
	RAJ K. JAIN	2616
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this apportant or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to $7/3/08$.		
2. X The allowed claim(s) is/are <u>1,2,4-7,10-13,16,25 and 26 ren</u>	umbered 1-13.	
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
2. ☐ Certified copies of the priority documents have		
3. ☐ Copies of the certified copies of the priority does		
International Bureau (PCT Rule 17.2(a)).		manomar stage approation from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXAMINER	'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) ☐ including changes required by the Notice of Draftspers		948) attached
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(b) ☐ including changes required by the attached Examiner's		Office action of
Paper No./Mail Date	7 Americanient / Comment of in the C	Since delien of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	E Notice of Informal	latant Annlication
` ,	5. Notice of Informal P	• •
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	te .
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>7/3/08</u> 	7. Examiner's Amendr	ment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
or Bronograd, Material	9.	

DETAILED ACTION

Page 2

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Claims 1 and 25 are allowed.

The prior art discloses a large area synchronized-code division multiple access (LAS-CDMA) system using LS codes for spread spectrum modulation.

The prior art however fails to disclose means for assigning a first of a plurality of subsets to a first portion of a wireless CDMA system and means for assigning a second of the plurality of subsets to a second portion of the wireless system and means for identifying mobile stations within the first portion of the wireless system with LS codes from the first of the plurality of subsets; and means for identifying mobile stations within the second portion of the system with LS codes from the second of the plurality of subsets.

Claim 7 is allowed.

The prior art discloses a large area synchronized-code division multiple access (LAS-CDMA) system using LS codes for spread spectrum modulation.

The prior art however fails to discloses a cross-correlation between any two LS codes within a first subset that is null within an interference free window, and the cross-correlation between any two LS codes within a second subset is null within the interference free window and wherein the first and second subsets of LS codes are part of a set of LS codes and are defined by the interference free window, and wherein the set of LS codes comprises 128 LS codes, and the interference free window is equal to [-1,+1] and corresponds to 64 available LS codes for each of the first and second subsets.

Claims 13 and 26 are allowed.

The prior art discloses a large area synchronized-code division multiple access (LAS-CDMA) system using LS codes for spread spectrum modulation.

The prior art however fails to disclose means for processing a transmission comprising first and second portions, wherein the transmission further comprises a third portion comprising a first LS code, and wherein the second portion has an associated

Application/Control Number: 10/719,807 Page 3

Art Unit: 2616

first data symbol and the third portion has an associated second data symbol, the second portion comprising the first LS code modulated by the first data symbol, and the third portion comprising the first LS code modulated by the second data symbol.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAJ K. JAIN whose telephone number is (571)272-3145. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Raj K. Jain/
Art Unit 2616
September 15, 2008

Application/Control Number: 10/719,807 Page 4

Art Unit: 2616

/Chi H Pham/
Supervisory Patent Examiner, Art Unit 2616
8/25/08